

## CLAIMS

1. A radio transmitting apparatus of a multicarrier system in which data is transmitted simultaneously to a plurality of receiving stations using subcarriers, said 5 radio transmitting apparatus comprising:

a blocking section that divides subcarriers into blocks;

a scheduler that selects a receiving station on a block unit basis; and

10 a controller that adaptively varies a number of subcarriers per block for each receiving station based on a propagation environment of a receiving station.

2. The radio transmitting apparatus according to claim 15 1, wherein said controller determines a number of subcarriers per block based on a maximum delayed waveform delay time of a received signal received by said receiving station.

20 3. The radio transmitting apparatus according to claim 2, wherein said controller determines said number of subcarriers per block  $W \times t_{max}$  subcarriers, where W is a bandwidth of said subcarriers and  $t_{max}$  is said maximum delay time.

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4. A radio communication terminal apparatus equipped with the radio transmitting apparatus according to claim 1.

5. A radio communication base station apparatus equipped with the radio communication apparatus according to claim 1.

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6. A radio transmission method of a multicarrier system in which transmission is performed simultaneously to a plurality of receiving stations using subcarriers; wherein subcarriers are divided into blocks, a 10 receiving station is selected on a block unit basis, and a number of subcarriers per block is varied adaptively for each receiving station based on a propagation environment of each receiving station.